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Bescheinigung

Certificate

Attestation

Die angehefteten Unterlagen stimmen mit der ursprünglich eingereichten Fassung der auf dem nächsten Blatt bezeichneten europäischen Patentanmeldung überein.

The attached documents are exact copies of the European patent application described on the following page, as originally filed.

Les documents fixés à cette attestation sont conformes à la version initialement déposée de la demande de brevet européen spécifiée à la page suivante.

Patentanmeldung Nr. Patent application No. Demande de brevet n°

97200421.2

Der Präsident des Europäischen Patentamts;
Im Auftrag

For the President of the European Patent Office

Le Président de l'Office européen des brevets
p.o.

A. MORUZZI

DEN HAAG, DEN
THE HAGUE,
LA HAYE, LE

16/06/97



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**Blatt 2 der Bescheinigung
Sheet 2 of the certificate
Page 2 de l'attestation**

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Demande n°:

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Date of filing: 14/02/97
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Anmelder:
Applicant(s):
Demandeur(s):
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Titre de l'invention:

A method for operating a video game with backfeeding video images of players, and a video game arranged for practising the method

In Anspruch genommene Priorität(en) / Priority(ies) claimed / Priorité(s) revendiquée(s)

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Am Anmeldetag benannte Vertragsstaaten:
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Remarks:
Remarques:

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A method for operating a video game with backfeeding video images of players, and a video game arranged for practising the method.

BACKGROUND OF THE INVENTION

The invention relates to a method for operating a video game, said method comprising the steps of:

- enabling a player to interact with a gaming environment,
- 5 machine-detecting a score and/or performance of the player in a particular session,

backfeeding into the gaming environment a representation of said score and/or performance in visual form through an item that identifies the player in question.

- A method of this kind is known from GB 2,205,188. Generally, the game may either be
- 10 an arcade game, or a PC-based game that gets its software on a local CD-ROM player, or a network-based game that may operate off-line and get its software through downloading. Various other configurations of such gaming environment are feasible. In a network environment, the game may be conducted off-line with a single player, off-line with multiple players, or even on-line with multiple players. The realization of the
 - 15 environment may be as conventional as a fruit machine, or high tech through using various virtual reality features.

- Various people have seen the advantage of rewarding players in video games of the arcade and other types with the presentation of their identity. The above reference uses a printed ticket for outputting the name of a player alone or in
- 20 combination with an attained score. The present invention has recognized that present day technology can attain a much higher degree of liveliness, especially in view of falling prices of various devices. In particular, video aspects of such a gaming environment have been experienced as being interesting to user persons.

25 SUMMARY TO THE INVENTION

Amongst other things, it is therefore an object to present the player with a lifelike or video image of him or herself. Accordingly, the invention is characterized by automatically taking up a video image of the player in question as said representation

for subsequent video display in said gaming environment. Compared with the remaining elements of the gaming environment that often comprise an appreciable amount of electromechanical hardware, the price of a camera has fallen dramatically. Furthermore, confrontation of a player with an other person's image being displayed in the actual
5 gaming environment, has been felt as extremely tantalizing. The nature of the image may be a photograph or even a dynamic clip of the player.

Advantageously, the invention comprises a ranking step among players in respectively successive playing sessions, and displaying images of high-ranking players in a relatively persistent manner with respect to subsequent playing sessions. In this
10 manner, competition among various players is raised still further. Top players could have a display that is persistent over a relatively long period, such as one day or even one week.

Advantageously, for use in a multiple player environment, the video image is selectively and cross-wise fed back to said multiple players. This enhances the
15 competitive character of such a game still further: for example in a car-racing environment all players could have the face of the leading driver on their display during further driving.

Advantageously, the video image is made part of a composite image together with selective items taken from memory. Such item could relate to a
20 characteristic attire worn in the real-life counterpart of the game, such as a space suit, or a particular interesting person related or unrelated to the gaming environment in question, such as President Clinton or movie star Debi Moore.

Advantageously, the player person is allowed to suppress during the session a presentation of said actual score and/or performance to said backfeeding
25 mechanism. This allows a person to remain anonymous if required; the realization can be effected through answering a system question by a keyboard command.

The invention also relates to a video game arranged for practising the above method. Further advantageous aspects of the invention are recited in dependent
Claims.

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BRIEF DESCRIPTION OF THE DRAWING

These and other aspects and advantages of the invention will be discussed more in detail with reference to the disclosure of preferred embodiments hereinafter,

and in particular with reference to the appended Figures that show:

Figure 1 is a block diagram of a multi-player environment;

Figure 2 is an instantaneous representation of a game image together with a player image.

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DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Figure 1 is a block diagram of a multi-player environment. At left is the setup for the first player person. Here, item 22 symbolizes the user interface. As shown, it is a multikey-keyboard. However, various other such interfaces have become
10 known, such as a joystick, a steering wheel, an electronic pinball interface as recited in EP Application 96200904.9, corresponding US Application Serial No. 08/...,... (PHN 15.755) to the present assignee, and various others. In particular, the interface may be bidirectional. The signals from the user interface are sent to the local processing device 24. This local processing device generates an image on display 20. Furthermore,
15 it sends a control signal to local camera arrangement 26 that is focused through lens 28 on the local player, or at least on a position where this player is supposed to be. The may camera is attached for sending the image information to local processing device 24. Now, in a stand-alone setup the processing device 24 calculates the score of the player. This score may represent the number of hits in a shooting game, the number of points
20 and/or jackpot hits in a pinball machine environment, or other scores as applicable. In certain circumstances such as the gaining of a particular number of points, processing device 24 may transmit a command to camera 26 so that an image of the player is taken up through appropriate focus and direction of lens 28. The image signals are digitized and transferred to central processing device 24 for more or less persistent storage in
25 local memory that has not been shown separately. If the player would object against taking this image, at the beginning of the gaming session an appropriate command must be given upon a machine-generated question.

In a subsequent gaming session, the image so taken up can be displayed on display 20, for example, such as at the start of the session, or rather, during the
30 evolution of the game as specified in the gaming rules. In case a plurality of pictures have been taken up during successive gaming sessions the processing device 24 through some kind of ranking mechanism may give preference to the image of a particular player in favour of other images. The ranking mechanism may be permanent, for

example in that always the top player of the last week has his image displayed. Other ranking strategies could introduce some random character in that the selection is made among a plurality of images.

At right in the Figure a similar setup is shown with corresponding items 5 30, 32, 34, 36 and 38. First, this second game could also represent a stand-alone environment. Alternatively, competition between two simultaneous players could be introduced in that the two processing devices 24 and 34 are joined through some interconnection mechanism 40. The latter could be a local network, an interconnection to the Internet system or any appropriate item. Now, the two gaming sessions can be 10 joined to each other, for example, in a racing duel. For example, the camera could take up the images of the driver that actually leads the pack, for display on all displays 20, 30... An alternative is that the images may actually figure in the game in that they actually become part of the game. For example, in a boxing game, the highest ranking player of a recent past could be superposed to the image of the actual player's 15 opponent.

Figure 2 is an actual image of a racing game. The display device 60 has been shown with the actual image screen 62 in its centre. The image first contains the dashboard 64 of the driver (=player) in question. In front of the actual car the road 66 to be taken has been shown. Far out in front can be seen the car 68 of the driver that 20 leads the pack. In the top part of the screen, that may have a different aspect ratio from the one shown here, various gaming quantities are being shown. First, field 70 shows the lag of the driver in question behind the leading driver, second field 72 shows an image of the face of the driver actually being in front, finally, field 74 shows the driver that has covered the overall racing circuit in the shortest time. If the present player 25 himself is actually leading the pack, either the field for the image of the leading driver is empty, or the image of the actual driver is displayed.

At the end of the gaming session, the image of the victorious driver may be printed, together with a textual identifier such as name or initials, and further relevant data, such as actual score, calendar date, names of other players, and their 30 respective scores, etcetera. A particular feature is to join the image of the victorious driver with an image, or even a clip taken from memory. By itself, the joining of images into a single picture known technology, that is rendered mere easy and more natural if the camera through good focusing creates an image that has a well-defined

circumference, so that a particular "hole" may be filled in the image taken from memory. The printing may be on paper or similar material, or even onto a CD-ROM rewritable, if the game program had been provided on such support. Note that the printing may be effected remotely, such as on only one of the networked terminals of

- 5 Figure 1. If applicable, the display may be in the form of a short movie fragment of so-called **clip**.

CLAIMS:

1. A method for operating a video game, said method comprising the steps of:
 - enabling a player to interact with a gaming environment,
 - machine-detecting a score and/or performance of the player in a particular
 - 5 session,
 - backfeeding into the gaming environment a representation of said score and/or performance in visual form through an item that identifies the player in question,
 - said method being characterized by automatically taking up a video image of the player in question as said representation for subsequent video display in said gaming
 - 10 environment.
2. A method as claimed in Claim 1, furthermore comprising a ranking step among players in respectively successive playing sessions, and displaying images of one or more high-ranking players in a relatively persistent manner with respect to subsequent playing sessions.
- 15 3. A method as claimed in Claims 1 or 2, for use in a multiple player environment, wherein said video game is selectively cross-wise fed back to said multiple players.
4. A method as claimed in Claims 1 or 2, wherein said video image is made part of a composite image with one or more selective items taken from memory.
- 20 5. A method as claimed in any of Claims 1 to 4, and allowing said player to suppress during said session a presentation of said actual score and/or performance to said backfeeding.
6. A video game system being arranged for running a video gaming environment, comprising a user interface for enabling a player to interact with the
- 25 gaming environment, detection means for detecting a score and/or performance of the player in question, backfeeding means for backfeeding into the gaming environment a representation of said score and/or performance in visual form through an item that identifies the player in question,

characterized by camera means for automatically taking up a video image of the player in question as said representation for subsequent video display in said gaming environment.

7. A system as claimed in Claim 6, furthermore comprising ranking means
5 for relatively ranking players in respectively successive playing sessions, and control means fed by said ranking means for displaying images of high-ranking players in a relatively persistent manner with respect to subsequent playing sessions.
8. A system as claimed in Claims 6 or 7, arranged for implementing a
multiple player gaming environment, and having cross-wise communication means for
10 selectively cross-wise backfeeding said video image to said multiple players.

ABSTRACT:

A method for operating a video game with backfeeding video images of players, and a video game arranged for practising the method.

In a video gaming environment, a player is enabled to interact with the environment. Further, a score and/or performance of the player in a particular session is machine detected and fed fed back into the gaming environment and a representation of said score and/or performance is displayed in visual form through an item that
5 identifies the player in question. In particular, the method automatically takes up a video image of the player in question as said representation for subsequent video display in said gaming environment.

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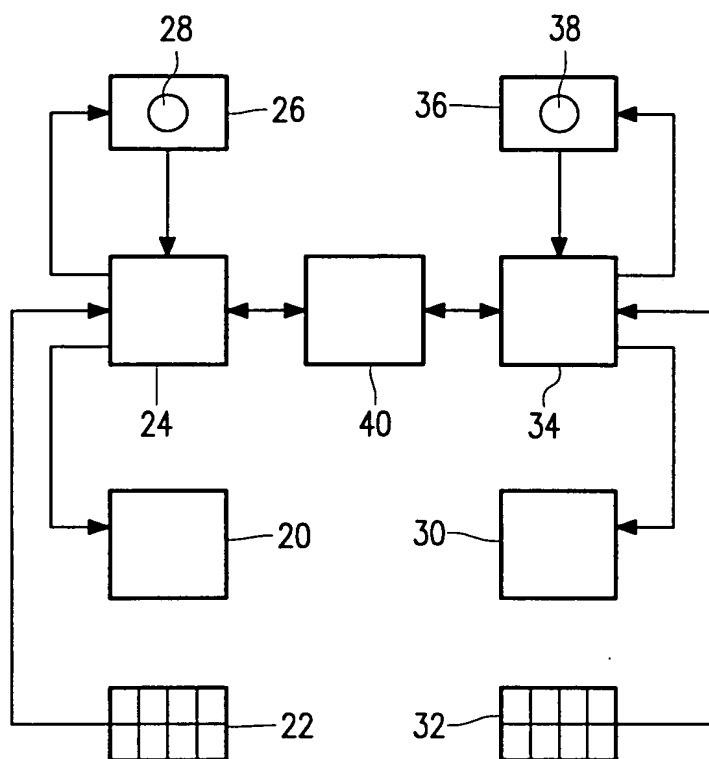


FIG. 1

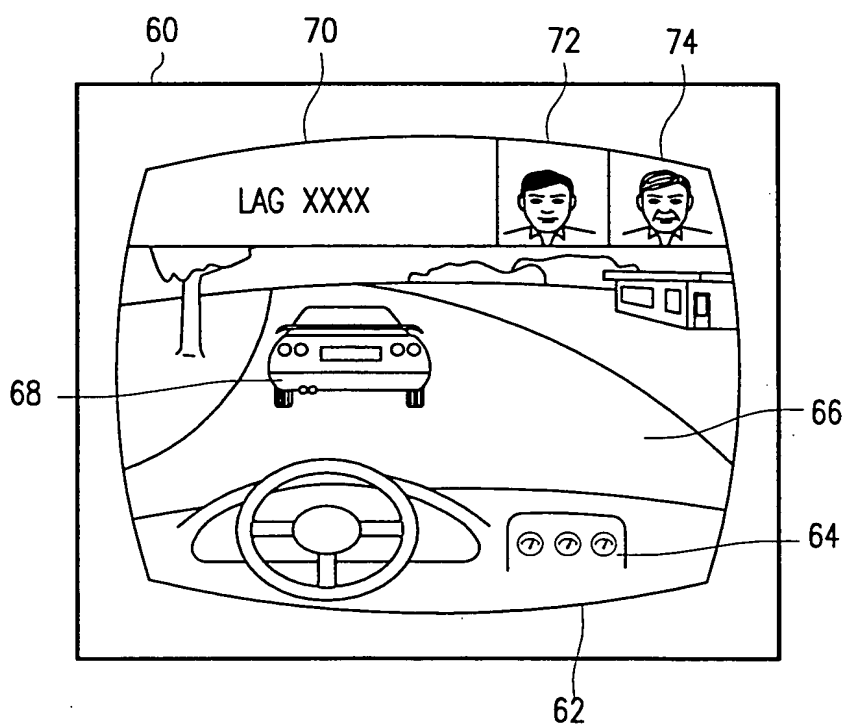


FIG. 2